



# UNIVERSITY OF TORONTO UNIVERSITY EXTENSION

DIRECTOR: J. R. COULTER, B.A.

## BUSINESS AND INDUSTRY COURSES

Session 1957 - 1958

### THEORY AND PRACTICE OF INDUCTION HEATING

January 14 -- March 18

Tuesday evenings

10 lectures

Sponsored by the American Society for Metals, Ontario

Chapter, this series of 10 lectures will set forth the theory and practice of induction heating in industry.

Each lecture will be given by a person with considerable experience in this field.

COURSE CHAIRMEN: Professor W.C. Winegard, M.A.Sc., Ph.D.,  
Department of Metallurgy,  
University of Toronto.

Professor G.B. Craig, M.A.Sc., Ph.D.,  
Department of Metallurgy,  
University of Toronto.

TIME: Tuesday evenings, 7:30 p.m., commencing January 14th

PLACE: Room 202, Mechanical Building

FEE: \$15.00

REGISTRATION: By mail or in person at Room 108, 65 St. George Street,  
9 a.m. to 5 p.m., every day except Saturdays.



## THEORY AND PRACTICE OF INDUCTION HEATING

- Jan. 14 - Induction Heating - What can it do for you?  
Mr. P. Cavanagh, Director of Metallurgy,  
Ontario Research Foundation, Toronto, Ontario.
- Jan. 21 - Design and Application of Rotary Frequency Generators.  
Mr. John C. Lewis,  
Tocco - Ohio Crankshaft Co., Hamilton, Ontario.
- Jan. 28 - Design and Application of Electronic High Frequency  
Generators.  
Mr. Reg. Streete, Guided Missile Division,  
DeHavilland Aircraft of Canada, Malton, Ontario.
- Feb. 4 - Significance of Frequency Towards Induction Heating  
Applications.  
Mr. Gary Matheus, Application Laboratory,  
Philips Industries, Toronto, Ontario.
- Feb. 11 - Design of Coils for High Frequency Heating.  
Mr. E.J. Nugent, Plant Metallurgist,  
Massey Harris Ferguson Ltd., Toronto, Ontario.
- Feb. 18 - Theory and Practice of Annealing and Hardening by  
Induction Heating.  
Mr. E.J. Nugent, Plant Metallurgist,  
Massey Harris Ferguson Ltd., Toronto, Ontario.
- Feb. 25 - Brazing and Soldering  
Mr. H. Thomasson, Manager, Metallurgical and  
Mechanical Section, Research and Development Laboratories,  
Canadian Westinghouse Co. Ltd., Hamilton, Ontario.
- Mar. 4 - Induction Melting.  
Mr. R.C. Shnay, Research and Development,  
Canada Iron Foundries, Toronto, Ontario.
- Mar. 11 - Tonnage Heating by Induction.  
Mr. R.S. Segsworth, Director of Research,  
General Engineering Co. Ltd., Toronto, Ontario.
- Mar. 18 - Special Applications of Induction Heating.  
(to be announced)

It is anticipated that laboratory demonstrations will be given during lectures 4, 6, 7 and 8. For this reason, the total class enrolment will be held at 50 persons.



UNIVERSITY OF TORONTO  
UNIVERSITY EXTENSION

Application for Evening Classes

Business and Industry Courses

I make application for enrolment in the Course indicated below. I understand that no refund is made after the second lecture in any Course.

( COURSE )

*The applicant is required to make out a separate application for each Course, and send in a separate cheque, made out to University of Toronto.*

Name (Mr.) .....  
(Mrs.) .....  
(Miss) ..... (Please Print and underline surname)

Address .....

City ..... Postal Zone No. ....

Telephone: Home ..... Bus. ....

Firm Name .....

Business Address .....

Present Position .....

Date ..... Fee \$ .....

FOR  
DEPARTMENTAL USE  
ONLY

Card No. ....

C.A. ....

(Cheques should be made payable  
to UNIVERSITY OF TORONTO,  
at par Toronto)

Cash .....  
Pers. cheque .....  
Firm cheque .....

(Signature)

Any Course may be cancelled if there is insufficient enrolment. Fee is refunded in case of cancellation of Course or applicant may apply fee to another Course if application is made for transfer. (Please see booklet for details.)

